ATTACHMENT B

California Energy Commission

Air Quality Self-Certification Checklist for Simple-Cycle Gas Turbine Generation Units

License Application for:
] New Emissions Unit(s) at a New Stationary Source

[] New Emissions Unit(s) at an	Existing Stationa	ry Source							
DISTRICT: South Coast	DATE: May 21	, 2001							
FACILITY INFORMATION									
License to be Issued to: La Jolla Energy Development									
Mailing Address: 2882- C Walnut Avenue									
City: Tustin		State: CA	Zip Code: 92780						
Address Where Equipment Will be Operated: 5640 South Fa	irfax Avenue								
City: Los Angeles		State: CA	Zip Code: 90065						
Nature of Business: Electric Power Generating Facility		SIC Code: 94	411						
Facility Contact Person: Steve Rusch		Phone Numb	per: (323) 298-2223						
		Fax Number: (323) 298-9375							
		Email: srusc	h@stockerresources.com						
Application Information Contact Person (if different from above	e):	Phone Numb	per:						
same as above		Fax Number	:						
		Email:							
Will the facility be under contract to sell its power within California	rnia? [X] Yes [] No							
If Yes, state the entity contracted with and the percentage of p	ower that will be so	old:							
What is the maximum total electrical output of the new power equipment at International Standards Organization (ISO) cond			29.2 MW						
Estimated construction start date: 06 / 01/ 2001	Estimated comple	tion date: 09	/ 01 / 2001						
Length of commissioning period (from date of initial startup): T	hree months								

NEW EQUIPMENT INFORMATION

TURBINE #1	If multiple identication	al units, indicate number of u	nits of this type: Two					
		Nominal: 27.35 MW	Maximum: 29.21 MW					
	Manufacturer: Ge	eneral Electric						
	Model: LM2500	Model: LM2500						
	Maximum Heat Ir	MMBtu/hr						
TURBINE #2	If multiple identical units, indicate number of units of this type:							
			MW					
	Manufacturer:							
	Model:							
	Maximum Heat Ir	MMBtu/hr						

Suggested Best Available		Emission Level	Control Technology
Control Technology	NOx	5 ppmvd @ 15% O ₂ (1-hr rolling average)	Selective catalytic reduction or other equivalent control device
(BACT)	СО	6 ppmvd @ 15% O ₂ (1-hr rolling average)	Oxidation catalyst or equivalent control device
	VOC	2 ppmvd @ 15% O ₂ (1-hr rolling average)	Oxidation catalyst or equivalent control device
	PM10	Emission limit corresponding to natural gas firing (PUC quality natural gas)	Natural gas firing (PUC quality natural gas)
	SO2	Emission limit corresponding to natural gas firing (PUC quality natural gas)	Natural gas firing (PUC quality natural gas)
	If applicable, NH3	10 ppmvd @ 15% O ₂ (1-hr rolling average)	

Selective	If not indicated, please	specify units of me	asure	ment:				
Catalytic Reduction	Ammonia Storage	Tank type: Steel Pro	essure	Tank				
Information, if	Tank(s):	Number of tanks: O	ne					
applicable		Tank size: 5,000 Ga	allons					
		Reactant type: [] Anhydrous ammonia [X] Aqueous ammonia [] Urea If aqueous ammonia, indicate ammonia concentration: Turnover rate:						
	SCR Manufacturer:	Engelhard	Engelhard					
	SCR Make:	Engelhard						
	SCR Model:							
	Catalyst dimensions:	Length:	30 ft	Width:	8.79 ft	Height:	3 ft	
	Pressure drop across So	CR unit: 1.5 in w.c.						
	Pressure drop across ar	mmonia injection grid:	Less t	han 0.5 in wg	J			
	Space velocity (gas flow	rate/catalyst volume)): 11,0	00 lbs./hr.				
	Area velocity (gas flow r	Area velocity (gas flow rate/wetted catalyst surface area): Not Available						

NEW EQUIPMENT INFORMATION (continued)

Selective Catalytic	Manufacturer's guarantee:	Control efficiency:	90.0 %	Catalyst life: 5	yrs					
Reduction	Ammonia injection rate: 57.0 lb	Ammonia injection rate: 57.0 lbs./hr.								
Information, if applicable	NOx concentration into SCR ur	nit:		25	ppmvd @ 15% O2					
(continued)	SO ₂ oxidation rate:		SO ₃ emissions	:						
	Operating temperature range of catalyst: 690 – 720 °F									
	Temperature at which ammonia	a injection will begin	: At Operating	Temperature	°F					

Oxidation	If not indicated, please	specify units of measure	ment:						
Catalyst Information, if	Manufacturer:	Engelhard							
applicable	Make:								
	Model:								
	Catalyst dimensions:	Length: ft	Width:	ft	Height:	ft			
	Pressure drop across ca	italyst:			l				
	Manufacturer's	CO control efficiency:	90 %	Catalyst life: 3		yrs			
	guarantee:	VOC control efficiency:	65 %						
	Space velocity (gas flow	Space velocity (gas flow rate/catalyst volume): 11,000 lbs./hr.							
	Area velocity (gas flow r	ate/wetted catalyst surface	area): Not Ava	ilabe					
	Catalyst cell density (cel	Is per square inch): 100 to	150 срі						
	CO concentration into ca	CO concentration into catalyst: 40.0 ppmvd @ 15% O2							
	VOC concentration into	catalyst:			4.0 ppmvd (@ 15% O2			
	Operating temperature r	ange of catalyst: 690 – 860	°F			°F			

Fuel Data	Fuel Type: Natural (gas		Specify sulfur content if or gr/100 scf	ther than 5
	Higher Heating Valu	e: 1049.99	Btu/scf	Sulfur Content: < 5	gr/100 scf
	Maximum Fuel Cons	sumption Rate: 0.2374		MMscf/hr	
	Exhaust Data:	Flow: 228,410 wacf/min		M/sec or r	m ³ /sec or acfm

On-line	(If corrected to	other than 15% O2, indicate at right)		3 %O ₂
Normalized Emission Rate	Specify by unit	s listed below or indicate other value	es and units at right:	
	NOX	ppmvd on a 1-hr rolling avg.	lb/MMBtu	20.23
	СО	ppmvd on a 1-hr rolling avg.	lb/MMBtu	9.85
	voc	ppmvd on a 1-hr rolling avg.	lb/MMBtu	1.97
	PM10	ppmvd on a 1-hr rolling avg.	lb/MMBtu	6.93
	SO ₂	ppmvd on a 1-hr rolling avg.	lb/MMBtu	0.63
	If applicable, NH ₃	ppmvd on a 1-hr rolling avg.	lb/MMBtu	7.48

NEW EQUIPMENT INFORMATION (continued)

On-line Mass Emission Rate (each turbine)		Hourly [lbs/hr]	Daily [lbs/day]	Quarterly [lbs/qtr]	Annual [tons/yr]	
	NOX	4.15	102.6	9,080	18.16	
	СО	2.02	50.0	4,421	8.85	
	voc	0.40	10.0	884	1.77	
	PM10	1.54	38.15	3,377	6.76	
	SO ₂	0.14	3.47	307	0.62	
	If applicable, NH3	1.54	37.9	3,356	6.71	
Startup and Shutdown Mass Emission		Startup Emissions Hourly [lbs/hr]		Shutdown Emissions Hourly [lbs/hr]		
Rate (each turbine)	NOX	20.73		N/A		
,	СО	20.19		N/A		
	VOC	1.	15	N/A		
	PM10	1.	54	N/A		
	SO ₂	0.14		N/A		
Commissioning Period Mass		Hourly [lbs/hr]		Daily [Ibs/day]		
Emission Rate (each turbine)	NOx		.25	N/A		
(52311 (2151113)	СО	25	.97	N/A		
	VOC	2.	02	N	/A	
	PM10	1.4	69	N	/A	
	SO ₂	0.	15	N/A		

Operating Parameters	Operating Hours:	[hrs/day]	[hrs/qtr]	[hrs/yr]		
i arameters						
	Startup Data:	Number of startups pe	er day: N/A			
		Number of startups per year: N/A				
		Startup duration:	N/A			
	Shutdown Data:	Number of shutdowns per day: N/A				
		Number of shutdowns per year: N/A				
		Shutdown duration:	N/A			

NEW EQUIPMENT INFORMATION (continued)

Facility Annual		Facility Annual		Emission	s That Need to	o be Offset	
Emissions and Emissions to		Emissions [tons/yr]	Q1 [lbs/qtr]	Q2 [lbs/qtr]	Q3 [lbs/qtr]	Q4 [lbs/qtr]	Annual [tons/yr]
be Offset	NOx	36.32	18,160	18,160	18,160	18,160	18,160
	СО	17.69	N/A	N/A	N/A	N/A	N/A
	VOC	3.54	N/A	N/A	N/A	N/A	N/A
	PM10	13.51	4.05	4.05	4.05	4.05	4.05
	SO ₂	1.23	N/A	N/A	N/A	N/A	N/A

Offsets to be		0551		Offsets F	Required		
Provided (If Necessary)		Offset Ratio	Q1 [lbs/qtr]	Q2 [lbs/qtr]	Q3 [lbs/qtr]	Q4 [lbs/qtr]	Source of Offsets
	NOx		18,160	18,160	18,160	18,160	[] State bank* [] District bank [] Other, specify:
	СО		N/A	N/A	N/A	N/A	[] State bank [] District bank [] Other, specify:
	VOC		N/A	N/A	N/A	N/A	[] State bank [] District bank [] Other, specify:
	PM10		4,052	4,052	4,052	4,052	[] State bank [] District bank [] Other, specify:
	SO ₂		N/A	N/A	N/A	N/A	[] State bank [] District bank [] Other, specify:

Monitoring and Reporting	What is the make/model of the continuous emissions monitoring system (CEMS), if known? Make: Not Known
	Model:
	The following parameters will be continuously monitored:
	[X]NOx
	[X]CO
	$[X]O_2$
	[X] Fuel flow rate
	[] Ammonia injection rate
	Other, please specify:
	Will the CEMS be used to measure both on-line and startup/shutdown emissions?
	[X] Yes [] No

*Note: The initial amount of NOx offsets that can be acquired from the State bank is 21 tons/yr x the applicable offset ratio for each 50 MW of new generating capacity.

ADDITIONAL INFORMATION

Facility Location: [] Urban (area of dense population) [X] Rural (area of sparse population)
Will the facility be located within 1,000 feet of a school? [] Yes [X] No
(Note: Per Section 42301.9 of the California Health and Safety Code, a "school" means any public or private school used for purposes of the education of more than 12 children in kindergarten or any of grades 1 to 12, inclusive, but does not include any private school in which education is primarily conducted in private homes
Nearest Receptor:
Distance to nearest residence 2,200 feet
Distance to nearest business 6,600 feet
Air Dispersion Modeling Input Data
Stack Parameters:
Height 70 feet Inside diameter 9.5 inches
Is a rain cap present on the exhaust stack? [] Yes [X] No
Direction of exhaust from structure or device: [X] Vertical [] Horizontal
Building Dimension Data for Downwash Calculations:
a) Building Height 6 meters
b) Minimum horizontal building dimension 15.2 meter
c) Maximum horizontal building dimension 32 meter
Was an ambient air quality impact analysis required for this project? [] Yes [] No
If Yes, was an ambient air quality impact analysis conducted as required by District rules?[] Yes [] No
If Yes, please attach the analysis and provide an electronic version on disk or CD.
Was a health risk assessment required for this project? [X] Yes [] No
If Yes, was a health risk assessment conducted as required by District rules? [X]Yes []No
If Yes, please attach the analysis and provide an electronic version on disk or CD.
Please attach a site map for the project.
CERTIFICATION
Based on information and belief formed after reasonable inquiry, I certify that the statements and information in attached to this document are, true, accurate, and complete.
Steve Wilburn
Responsible Official (Please Print Name)